

We claim:

1. A golf ball comprising:

a core;

a cover layer; and

at least one interior layer surrounding said core and

5 disposed between said core and said cover layer;

wherein at least one of said core and said at least one interior layer comprises a silicone material selected from the group consisting of silicone polymers, silicone fluids, silicone elastomers, silicone resins, and combinations thereof.

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2. A golf ball according to claim 1 wherein said silicone material is a silicone polymer.

3. A golf ball according to claim 1 wherein said silicone material is a silicone elastomer.

4. A golf ball according to claim 1 wherein said silicone material is a silicone resin.

5. A golf ball according to claim 1 wherein said cover layer comprises an inner cover layer molded on said at least one interior layer, and an outer cover layer molded on said inner cover layer.

6. A golf ball according to claim 1, wherein the interior layer has a thickness of about 0.100 to about 0.010 inches and the cover layer has a thickness of about 0.010 to about 0.05 inches, the golf ball having an overall diameter of 5 1.680 inches or more.

7. A golf ball according to claim 6 wherein the interior layer has a thickness of about 0.0375 inches and the cover layer has a thickness of about 0.0300 inches, the golf ball having an overall diameter of 1.680 inches or more.

8. A golf ball according to claim 1 wherein said silicone material, upon curing, has a Shore 00 hardness of from about 55 to about 100.

9. A golf ball according to claim 1 wherein said silicone material, upon curing, has a tensile strength of from about 300 psi to about 600 psi.

10. A golf ball according to claim 1 wherein said silicone material, upon curing, exhibits an elongation of from about 350% to about 650%.

11. A golf ball comprising:  
a core comprising a silicone material;  
an inner cover layer molded on said core;  
an outer cover layer molded on said inner cover  
5 layer; and

at least one interior layer disposed between said core and said outer cover layer, said interior layer comprising a silicone material.

12. A golf ball according to claim 11, wherein the inner cover layer has a thickness of about 0.375 to about 0.010 inches and the outer cover layer has a thickness of about 0.010 to about 0.375 inches, the golf ball having an overall diameter of 1.680 inches or more.

13. A golf ball according to claim 12 wherein the inner cover layer has a thickness of about 0.030 to 0.375 inches and the outer cover layer has a thickness of about 0.030 to 0.375 inches, the golf ball having an overall diameter of 1.680 inches or more.

14. A golf ball according to claim 11 wherein the outer layer composition includes 90 to 10 percent by weight of a hard high modulus ionomer resin and about 10 to 90 percent by weight of a soft low modulus ionomer resin.

15. A golf ball according to claim 14 wherein the outer layer composition includes 75 to 25 percent by weight of the hard high modulus ionomer resin and about 25 to 75 percent by weight of the soft low modulus ionomer resin.

16. A golf ball according to claim 11 wherein said silicone material, upon curing, has a Shore 00 hardness of from about 55 to about 100.

17. A golf ball according to claim 11 wherein said silicone material, upon curing, has a tensile strength of from about 300 psi to about 600 psi.

18. A golf ball according to claim 11 wherein silicone material, upon curing, exhibits an elongation of from about 350% to about 650%.